

CLAIM AMENDMENTS

1. (Currently Amended) A method for producing a hydrocyanic acid synthesis catalyst ~~which~~ comprises selecting an iron source ~~and form~~ for the hydrocyanic acid synthesis catalyst ~~and~~ having an iron surface ~~and sequentially exposing the iron surface to oxidative and reductive atmospheres.~~
2. (Previously Presented) A method for producing hydrocyanic acid synthesis catalyst according to claim 1 wherein said ~~form~~ ^{conduit} is an iron pipe and the inner surface of said iron pipe is sequentially exposed to oxidative and reductive atmospheres.
3. (Previously Presented) A method for producing hydrocyanic acid synthesis catalyst according to claim 1 wherein ~~the cycle of exposure to oxidative and reductive atmospheres is carried out more than once.~~
4. (Currently Amended) A method for producing a hydrocyanic acid synthesis catalyst ~~which~~ comprises selecting an iron source ~~and form~~ for the hydrocyanic acid synthesis catalyst ~~and~~ having an iron surface and sequentially exposing the iron surface to oxidative and reductive atmospheres, wherein the oxidative atmosphere is being a gas containing from about 5% to 30% by volume of oxygen.
5. (Original) The method of claim 1 wherein the reductive atmosphere is a gas containing between 1% and 99% by volume of hydrogen.
6. (Previously Presented) The method of claim 4 wherein the reductive atmosphere is a gas containing between 1% and 99% by volume of hydrogen.
7. (Currently Amended) A method for producing a hydrocyanic acid synthesis catalyst which comprises selecting an iron source and form for the hydrocyanic acid synthesis catalyst and having an iron surface and sequentially exposing the iron surface to oxidative and reductive atmospheres, wherein the exposure of the iron surface to the oxidative

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Application No. 09/669,426

atmosphere is conducted under the conditions that the temperature is in the range of about 300°C to 650°C, the pressure is in the range of from about 6 kPa to 150 kPa, a space velocity of from about 10 to 150h⁻¹ and the time is from about 5 to 300 minutes.

8. (Currently Amended) A method for producing a hydrocyanic acid synthesis catalyst which comprises selecting an iron source and form for the hydrocyanic acid synthesis catalyst and having an iron surface and sequentially exposing the iron surface to oxidative and reductive atmospheres, wherein the exposure of the iron surface to the reductive atmosphere is conducted under the conditions that the temperature is in the range of about 300°C to 650°C, the pressure is in the range of from about 6 kPa to 150 kPa, a space velocity of from about 10 to 150h⁻¹ and the time is from about 5 to 300 minutes.

9. (Previously Presented) A method of claim 4 7 wherein the exposure of the iron surface to the oxidative and reductive atmospheres is conducted under the conditions that the temperature is in the range of about 300°C to 650°C, the pressure is in the range of from about 6 kPa to 150 kPa, a space velocity of from about 10 to 150h⁻¹ and the time is from about 5 to 300 minutes.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently Amended) The method of claim 3 wherein at least 10 cycles of exposure are utilized carried out.